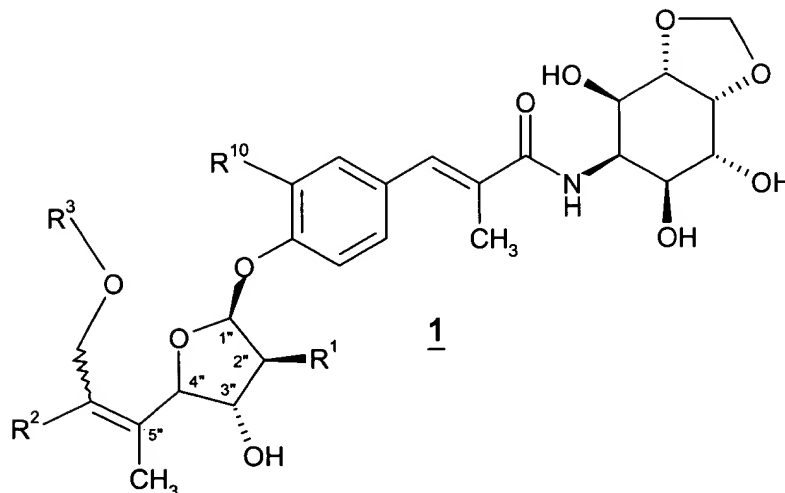


CLAIMS

1. A compound of the formula



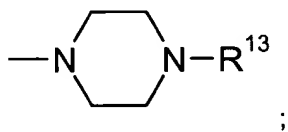
- 5 or a pharmaceutically acceptable prodrug, salt or solvate thereof wherein:
each R^1 and R^{10} is independently H or OH;
 R^2 is H or C_1 - C_6 alkyl wherein the foregoing R^2 alkyl group is optionally substituted by
1 or 2 R^4 groups;
each R^3 is independently selected from C_6 - C_{10} aryl or 5 to 10 membered
10 heteroaromatic, and the heteroaromatic and aryl moieties of the foregoing R^3 groups are
substituted by a $-CHR^9NR^{11}R^{12}$ group and optionally substituted by 1 to 4 R^4 groups;
each R^4 is independently selected from, C_1 - C_{10} alkyl, C_2 - C_{10} alkenyl, C_2 - C_{10} alkynyl,
halo, cyano, nitro, trifluoromethyl, difluoromethyl, trifluoromethoxy, azido, hydroxy, C_1 - C_6
alkoxy, $-C(O)R^5$, $-C(O)OR^5$, $-NR^6C(O)OR^8$, $-OC(O)R^5$, $-NR^6SO_2R^8$, $-SO_2NR^5R^6$, $-NR^6C(O)R^5$,
15 $-C(O)NR^5R^6$, $-NR^5R^6$, $-S(O)_j(CR^6R^7)_m(C_6-C_{10}$ aryl), $-S(O)_j(C_1-C_6$ alkyl), $-(CR^6R^7)_m(C_6-C_{10}$ aryl),
 $-O(CR^6R^7)_m(C_6-C_{10}$ aryl), $-NR^6(CR^6R^7)_m(C_6-C_{10}$ aryl), $-(CR^6R^7)_m(4$ to 10 membered
heterocyclic), $-C(O)(CR^6R^7)_m(C_6-C_{10}$ aryl), and $-C(O)(CR^6R^7)_m(4$ to 10 membered
heterocyclic), wherein m is an integer from 0 to 4; j is an integer from 0 to 2, and said alkyl,
alkenyl, alkynyl, aryl and heterocyclic moieties of the foregoing R^4 groups are optionally
20 substituted by 1 to 3 substituents independently selected from halo, cyano, nitro,
trifluoromethyl, trifluoromethoxy, azido, $-NR^6SO_2R^8$, $-SO_2NR^5R^6$, $-C(O)R^5$, $-C(O)OR^5$,
 $-OC(O)R^5$, $-NR^6C(O)OR^8$, $-NR^6C(O)R^5$, $-C(O)NR^5R^6$, $-NR^5R^6$, $-OR^5$, C_1 - C_{10} alkyl, $-(CR^6R^7)_m(C_6-$
 C_{10} aryl), and $-(CR^6R^7)_m(4$ to 10 membered heterocyclic), wherein m is an integer from 0 to 4;
each R^5 , R^9 , R^{11} , R^{12} , R^{13} and R^{14} is independently selected from H, C_1 - C_{10} alkyl,
25 $-(CR^6R^7)_m(C_6-C_{10}$ aryl), $-(CR^6R^7)_m(C_3-C_{10}$ cycloalkyl), indanyl and $-(CR^6R^7)_m(4$ to 10 membered
heterocyclic), wherein m is an integer from 0 to 4, and the foregoing R^5 , R^{11} , R^9 and R^{12}

substituents, except H, are optionally substituted by 1 to 3 substituents independently selected from halo, cyano, nitro, benzyl, trifluoromethyl, trifluoromethoxy, azido, $-\text{CH}_2(\text{C}_2\text{-C}_6\text{ alkenyl})$, $-\text{C}(\text{O})\text{R}^6$, $-\text{C}(\text{O})\text{OR}^6$, $-\text{OC}(\text{O})\text{R}^6$, $-\text{NR}^6\text{C}(\text{O})\text{R}^7$, $-\text{C}(\text{O})\text{NR}^6\text{R}^7$, $-\text{NR}^6\text{R}^7$, hydroxy, $\text{C}_1\text{-C}_6$ alkyl, and $\text{C}_1\text{-C}_6$ alkoxy;

- 5 or R^{11} and R^{12} can be taken together to form a 4 to 7 membered heterocyclic group optionally substituted by one R^{14} group;

each R^6 and R^7 is independently selected from H, $-\text{C}(\text{O})(\text{C}_1\text{-C}_6\text{ alkyl})$, $\text{C}_1\text{-C}_6$ alkyl or $-(\text{CH}_2)_n(\text{C}_6\text{-C}_{10}\text{ aryl})$ wherein n is an integer from 0 to 2, and the foregoing aryl substituents are optionally substituted by 1 to 3 substituents independently selected from halo, cyano, nitro, trifluoromethyl, trifluoromethoxy, and azido;

$-\text{NR}^6\text{R}^7$ can be taken together to form the following structure



each R^8 is selected from the substituents provided in the definition of R^5 except R^8 is not H.

- 15 2. A compound according to claim 1 include those wherein R^3 is phenyl substituted by one $-\text{CH}_2\text{NR}^{11}\text{R}^{12}$ group and optionally substituted by 1 to 4 R^4 groups.

3. A compound according to claim 2 wherein said R^{11} and R^{12} groups are independently selected from $\text{C}_1\text{-C}_{10}$ alkyl, $-(\text{CR}^6\text{R}^7)_m(\text{C}_6\text{-C}_{10}\text{ aryl})$, $-(\text{CR}^6\text{R}^7)_m(\text{C}_3\text{-C}_{10}\text{ cycloalkyl})$, indanyl and $-(\text{CR}^6\text{R}^7)_m(4\text{ to }10\text{ membered heterocyclic})$, wherein m is an integer from 0 to 4, and the foregoing, R^{11} and R^{12} substituents, are optionally substituted by 1 to 3 substituents independently selected from halo, benzyl, trifluoromethyl, trifluoromethoxy, $-\text{NR}^6\text{R}^7$.

4. A compound according to claim 1 wherein one of the R^4 groups is halo and ortho to the ether oxygen.

5. A compound according to claim 4 wherein said halo group is chlorine.

- 25 6. A compound according to claim 1 wherein said compound is selected from the group consisting of:

1 / 3-(4-((2S,3S,4S,5R)-5-[3-(2-chloro-4-[(methyl-napthalen-1-ylmethyl-amino)-methyl]-phenoxy)-1-methyl-(1E)-propenyl]-3,4-dihydroxy-tetrahydro-furan-2-yloxy)-3-hydroxy-phenyl)-2-methyl-N-((3aS,4R,5R,6S,7R,7aR)-4,6,7-trihydroxy-hexahydro-benzo[1,3]dioxol-5-yl)-(2E)-acrylamide;

2 3-(4-((2S,3S,4S,5R)-5-[3-(4-benzylaminomethyl-2-chloro-phenoxy)-1-methyl-(1E)-propenyl]-3,4-dihydroxy-tetrahydro-furan-2-yloxy)-3-hydroxy-phenyl)-2-methyl-N-((3aS,4R,5R,6S,7R,7aR)-4,6,7-trihydroxy-hexahydro-benzo[1,3]dioxol-5-yl)-(2E)-acrylamide;

5 3-(4-((2S,3S,4S,5R)-5-[3-(2,3-Dichloro-4-(((3-dimethylamino-propyl)-ethyl-amino)-methyl)-phenoxy]-1-methyl-propenyl]-3,4-dihydroxy-tetrahydro-furan-2-yloxy)-3-hydroxy-phenyl)-2-methyl-N-((3aS,4R,5R,6S,7R,7aR)-4,6,7-trihydroxy-hexahydro-benzo[1,3]dioxol-5-yl)-acrylamide

6 3-(4-((2S,3S,4S,5R)-5-[3-(4-ethylamino-2-chloro-phenoxy)-1-methyl-(1E)-propenyl]-3,4-dihydroxy-tetrahydro-furan-2-yloxy)-3-hydroxy-phenyl)-2-methyl-N-((3aS,4R,5R,6S,7R,7aR)-4,6,7-trihydroxy-hexahydro-benzo[1,3]dioxol-5-yl)-(2E)-acrylamide;

3-(4-((2S,3S,4S,5R)-5-[3-(4-benzylaminomethyl-2-chloro-phenoxy)-1-methyl-(1E)-propenyl]-4-hydroxy-tetrahydro-furan-2-yloxy}-3-hydroxy-phenyl)-2-methyl-N-((3aS,4R,5R,6S,7R,7aR)-4,6,7-trihydroxy-hexahydro-benzo[1,3]dioxol-5-yl)-(2E)-acrylamide;

3-(4-((2S,3S,4S,5R)-5-[3-{2-chloro-4-[(benzyl-methyl-amino)-methyl]-phenoxy}-1-methyl-(1E)-propenyl]-3,4-dihydroxy-tetrahydro-furan-2-yloxy)-3-hydroxy-phenyl)-2-methyl-N-((3aS,4R,5R,6S,7R,7aR)-4,6,7-trihydroxy-hexahydro-benzo[1,3]dioxol-5-yl)-(2E)-acrylamide;

25 (3S,4R,5R,6S,7R,7aR)-4,6,7-trihydroxy-hexahydro-benzo[1,3]dioxol-5-yl)-(2E)-acrylamide;
 methyl-(1E)-propenyl]-3,4-dihydroxy-tetrahydro-furan-2-yloxy}-3-hydroxy-phenyl)-2-methyl-N-

(|3-(4-((2S,3S,4S,5R)-5-[3-{2-chloro-4-morpholin-4-ylmethyl-phenoxy}-1-methyl-(1E)-propenyl]-3,4-dihydroxy-tetrahydro-furan-2-yloxy}-3-hydroxy-phenyl)-2-methyl-N-((3aS,4R,5R,6S,7R,7aR)-4,6,7-trihydroxy-hexahydro-benzo[1,3]dioxol-5-yl)-(2E)-acrylamide;

30 1-(2-(3-(4-((2S,3S,4S,5R)-5-[3-(4-(3-chloro-benzyl)aminomethyl-2-chloro-phenoxy)-1-methyl-(1E)-propenyl]-3,4-dihydroxy-tetrahydro-furan-2-yloxy}-phenyl)-2-methyl-N-((3aS,4R,5R,6S,7R,7aR)-4,6,7-trihydroxy-hexahydro-benzo[1,3]dioxol-5-yl)-(2E)-acrylamide;

and the pharmaceutically acceptable salts, prodrugs and solvates of said compounds.

7. A pharmaceutical composition for the treatment of a bacterial infection, a
35 protozoal infection, or a disorder related to a bacterial infection or a protozoal infection, in a

mammal, fish, or bird which comprises a therapeutically effective amount of a compound of claim 1 and a pharmaceutically acceptable carrier.

8. A method of treating a bacterial infection, a protozoal infection, or a disorder related to a bacterial infection or a protozoal infection, in a mammal, fish, or bird which
- 5 comprises administering to said mammal, fish or bird a therapeutically effective amount of a compound of claim 1.

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